

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant 8016-616	's or agent's file reference CUMM	FOR FURTHER ACTION			International Search ell as, where applicable,		
International application No. PCT/US03/23542		International filing date (day/month/year) 28 July 2003 (28.07.2003)		(Earliest) Priority Date (day/month/year) 26 July 2002 (26.07.2002)			
Applicant CUMMINS INC.							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of sheets.  It is also accompanied by a copy of each prior art document cited in this report.							
<ol> <li>Basis of the Report         <ul> <li>With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ul> </li> </ol>							
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:							
	contained in the international	l application in written form.					
filed together with the international application in computer readable form.							
furnished subsequently to this Authority in computer readable form.							
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
	the statement that the inform been furnished.	ation recorded in computer readable	form is id	entical to the written	sequence listing has		
2.	Certain claims were found	unsearchable (See Box I).					
3.	Unity of invention is lacking	g (See Box II).					
4. With	regard to the title,	than d buy along a linear					
	the text is approved as submithe text has been established	by this Authority to read as follows	:		MIERED		
5. With	regard to the abstract,						
	the text is approved as submitted by the applicant.						
	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.						
6. The	figure of the drawings to be pub	lished with the abstract is Figure No	o. <u>46</u>				
	as suggested by the applicant			No	ne of the figures		
	because the applicant failed t	o suggest a figure.					
	because this figure better cha				•		

Form PCT/ISA/210 (first sheet) (July 1998)



International application No.

PCT/US03/23542

Box III	TEXT	OF THE	ABSTRACT	(Continuation of	Item	5 of	the	first	sheet	)
---------	------	--------	----------	------------------	------	------	-----	-------	-------	---

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

### **NEW ABSTRACT**

An improved two-piece connecting rod (800) that connects a reciprocating piston with a crankshaft in an internal combustion engine. The connecting rod (800) has shank portion (810, 860), a cap portion (820, 870) and projections (830, 880, 882) extending from one or both of the shank (810, 860) and cap (820, 870) portions. When the shank (810, 860) and the cap (820, 870) are connected, the projections (830, 880, 882) mate with the opposite side with an interference fit, thereby resisting relative motion between the shank (810, 860) and the cap (820, 870) along a split-line (A').

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

## · INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/23542

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : F16C 07/00  US CL : 74/579E							
B. FIEL	International Patent Classification (IPC) or to both r.DS SEARCHED	ational classification and IPC					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 74/579E, 579R, 593, 594							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PALM and EAST							
	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where						
Х	US 6,027,784 A (TAGUCHI) 22 February 2000, co	ol. 2, line 21 to col. 4, line 34	1, 8, 15, and 20				
x	US 5,799,565 A (BO) 1 September 1998, col. 2, lin	15					
X	US 5,722,036 A (SHIKATA et al.) 24 February 19	ine 49. 15 and 20					
x	US 5,524,507 A (OLMR et al.) 11 June 1996, col.	15 and 20					
x	US 4,422,348 A (CAMPBELL) 27 December 1983	49. 1, 8, 15, and 20					
Further	documents are listed in the continuation of Box C.	See patent family a	innex.				
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier application or patent published on or after the international filing date</li> </ul>		date and not in conflict principle or theory und "X" document of particular considered novel or car	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step				
"L" document establish t specified)	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular considered to involve a	when the document is taken alone  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination				
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a pers					
	published prior to the international filing date but later than the te claimed	"&" document member of the same patent family					
	tual completion of the international search (02.04.2004)	Date of mailing of the international search report					
	iling address of the ISA/US	Authorized officer					
Mail Com P.O.	Stop PCT, Attn: ISA/US unissioner for Patents Box 1450 andria, Virginia 22313-1450	Vinh T Luong Telephone No. 703-308-1113					
Facsimile No.	(703) 305-3230						

Form PCT/ISA/210 (second sheet) (July 1998)

#### NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

## What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

## What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.